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Cicero Bento, Chandler, 7-passen-

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7-passerger A. K. Nawahi, Chandler, 7-passen-

Henry Kai, Oldsmobile, 5-passen-Jacob Victor, Oldsmobile, 5-passen-

John Brown, Chandler, 7-passenger. James Low, Hudson, 7-passenger. Raymond Lucas, Hudson Super-Six. 7-passenger.

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The experienced motorist

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fidence of tire buyers throughout the world.
The price you pay for

## Territorial Messenger Service Standardize on Trucks



The Territorial Messenger Service, agents for the Alexander Young Hotel laundry, have been one of the first, if not the first Honolulu to standardize on delivery trucks. The above picture shows four of the trucks used by this concern. They are the Vim Light Express trucks which have become very popular on the mainland as well as in Hawali. According to the members of the firm the truck is light and inexpensive to operate. The Young Hotel has used these trucks for cafe work delivery and have also found them to be a success.

[By Associated Press]

AMSTERDAM. - Automobile works in Germany are preparing for expansion on an enormous scale for the production of aircraft. One of the foremost factories has just voted to in-\$8,000,000. Special facilities have been granted by the German government for the flotation of the new shares.

A circular issued by the company says. "We entered the war with large reserves for extension purposes, but this has been used up by the large demands of the war. We can no

## GERMAN AUTO WORKS PREPARE TO EXPAND Carbon One of Worst Ailments Of Engine Says Henry Hughes

crease its capital from \$6,000,000 to Automobile Expert Says Carbon is Responsible for Many Evils this country. In a recent issue the Which are Blamed on Gasoline, Carbureter, Cooling System and Manufacturer-Carbon Gets Under Exhaust Valves sengers than the steam lines this and Gums Up Piston Rings So Motor Loses Compression year.

longer speak of "expanding" our day, Henry Hughes, the automobile gen turned on. This spreads to all 1000,000, assuming an average lead of works, but must use the term "mul- expert, replied: "Carbon." When asked parts of the combustion space, burn- three passengers. The passenger but you can make up your mind that being unnecessary. carbon has a lot to do with it. .

> tle, particularly on a hill, and the should," he concluded. driver blames the gasoline, the carbureter, the cooling system and sometimes the manufacturer. But he oftentimes forgets the carbon end of

"He will get out the starting handle and crank away at the motor to try the compression. He finds that the compression is weak, and then blames the maker of the car for building an engine which cannot hold compression a reasonable length of time. Before long the engine begins to miss, and he blames the coils or spark plugs, and to round things up he opens the switch after a long run and the engine refuses to stop.

"Then he remembers that he had heard a distinct knock which he thought might be a loose bearing, wrong inside or the engine wouldn't overheat so badly after the careful handling he has given it. So he condemns the car and all its kind and asks his friends what the trouble is that so many ills can occur to one engine at one time.

Carbon Is the Answer. "Carbon" is the answer. It gets under the exhaust valves and gums up the piston rings so that the motor loses compression. It short circuits the spark plugs and the engine misses explosions. It accummulates in masses in the head of the cylinder, or lens often cuts down the light to gets red hot and fires the mixture before the proper time. This causes knocking which is especially pronounced on a hill. When the switch

"There are many causes of carbon and one must be on his guard against all of them. The usual trouble is too much oil, but the wrong grade of oil will give carbon, as well as a poor grade. Too rich a mixture from the carburetor is another cause. If the chamber on the suction stroke-more enjoyment. The tires you take off

as it is not using the electric spark

Use Only Best Oil. "The remedy is to avoid the causes given above. Use oil made by the

cylinder once a week. Have motor grease. hot when it is poured in, so that the the motor is again started.

taken and cylinders are found to be when the hood is hot. In order to carbonized the deposits may be too protect the hood finish it has been thick to be affected by the kerosene found necessary by some makers to alone. The old method was to use fine the hood with asbestos so that scrapers, which were inserted through the heat cannot work through. The the valve openings. The carbon was sheet asbestos used for this is comscraped off but fell in masses on the paratively inexpensive. head of the piston. Unless blown out it was carried into the muffler. If In spite of the present day standnot thoroughly removed ridges of car- ardization, a number of different bon were left, which became red hot sized bolts are used on the motor car. and caused pre-ignition just the same. It is often difficult to carry in the Special Apparatus.

"The best method, aside from re- may be required. moving head and positive scraping, is to have the cylinders burned out One motorist has found that it is with oxygen. This can be done only handy to thread different sized rods when special apparatus is available, the entire length, say ten or twelve The engine is started and the gaso-inches. When a bolt is needed it can line supply is shut off. The engine be cut from the rod and a nut or two stops, having used up all the explo- be put on the end, making a very sive mixture in the combustion space. satisfactory bolt. These rods can be This is to avoid an explosion when bent to make U-shaped bolts or any the oxygen is first introduced into the other required shape. Plenty of nuts cylinder. The plugs are then re- can be carried right on the rods and

When asked what was one of the moved, a burning match dropped into mileage per car of 6000, the motor worst ailments of an engine the other the cylinder and the stream of oxy- car mileage for 1917 will be 18,000,the reason for bringing carbon into ing the carbon. As long as sparks mileage by motor for 1917 will be the question he said: "The presence are coming out the workman knows 54,000,000,000. Railroad traffic now of carbon is not often suspected, and that there is still some unconsumed amounts to 35,000,000,000 passenger the evils which follow are oftimes at carbon. This process is quick and miles yearly, which is less than the tributed to other than the real cause, quite efficient, dismantling of motor passenger mileage of motor cars. if

"So bear in mind the many troubles! "The motor appears to be sluggish, traceable to carbon the next time you chiefly the railroads in the thickly does not respond readily to the throt- find the motor is not pulling as it settled eastern portions of the coun-

By OTTO HORNE

End play in the crankshaft is apt foreign countries has cut down exto first be noticed when the car is port passenger car and truck busithrottled down to around five miles ness from the United States, the gross

bad roads the interstices of the radia. than eighty different countries. but now he knows there is something tor are packed with dirt and mud, it sipated in radiation.

> Every person riding, driving, pros pelling or in charge of any vehicle upon any street shall, in overtaking any other vehicle, pass to the left of such vehicle and the person in charge of such vehicle being overtaken and passed shall give way to the extreme right to allow such vehicle to pass

A deposit of dust on the reflector a marked degree. The owner should make a weekly habit of wiping the dust from these parts. While doing this it is a good plan to inspect the is opened the motor keeps on running cable connection. Vibration often lossens it and the poor contact results in a loss of light and waste of

If you're in the least doubt about your tires, better get new ones if you are going to drive on a vacation trip. You don't want to carry the haunting thought that you have a casing or piston rings are hadly worn oil will two that may be let go any minute be drawn up into the combustion when you are supposed to be out for may be carried as spares, and you'll be assured of a trouble-free trip.

An interesting and profitable trip manufacturer of established reputa- that every motorist should take, but tion, and use the oil he recommends very few think of, is a trip under the for your car. See that oil level is car to see the condition of things correct and that the mixture from there, Inspect brake connections to carburetor is right. If red or yellow see if there are any which do not get flame is shown at compression cocks, attention when the car is ciled. See the mixture is too rich. In spite of if they are wearing out or weakening the best care, however, carbon will Sometimes one finds grease cups that have been neglected for a long time. "To help keep this down, inject a Also inspect the universal joint to small quantity of kerosene in each see if it is loosening up or needs

kerosene will vaporize. Close com owners of new cars to have the hood pression cocks and crank engine over It often is disappointing to many a few times, either by hand or self- finish suddenly become dull while the starter. This compresses the vapor rest of the car retains its bright and forces it into the carbon. The finish. Once the hood finish has beeffect of the kerosene vapor acting come "dead" it is almost impossible all night is to soften the carbon so to bring back its luster without rethat some of it will be ejected when finishin; it. The duliness is brought about by the action of the engine "If such precautions have not been heat, but is made worse by washing

tool box bolts of all the sizes that

## SUMMER RATES

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Oahu Railway-Haleiwa Hotel



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### per hour, when so-called bucking will valuation with parts, of \$133,000,000 take place, accompanied by knocking, for the last twelve months being If the play is excessive the knocking slightly less than for the previous will be heard as the speed increases, year, although the cars were greater, numbering 80,811. Best results can be secured from a The increase is coming from counmotor-cooling system by keeping the tries not engaged in the war, and it radiator cells free from foreign mat- is worth noting that American prodter. Particularly on long trips over ucts last year were shipped to more STAR-BULLETIN GIVES YOU TODAY'S NEWS TODAY

MOTOR CARS CARRY MORE PERSONS THAN RAILROAD TRAINS

Wall Street Journal declares that

try, this authority states, the big

The placing of embargoes by certain

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12,400 miles and going strong. "Have driven to date 12,401 miles, and by the looks of the casing it should go 5,000 miles yet. It is a Savage."—A. J. Kellogg, Los Angeles.

"Have used a Savage Tire for 21/2 years—have made 10,000 miles. It is still good for 2,500 more."—D. G. Durbin, El Cajon, California.

15,000 miles, still in use. "July 12, 1915, purchased Savage Non-Skid tire. February 4, 1917, was still in use, while on opposite wheel we had worn out two other standard makes of tires—Savage has given 15,000 miles."—George & Co., Lincoln, Nebraska.

11,000 miles, Savages all round. "Have four Savages on my car. One has gone 10.814 miles, one 7.428, one 7.419, and one 2.000. All in good condition

and will get several thousand miles more from each." -D. J. Miller, Contractor, San Diego.

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omplete information to tire dealers on reque

"MEN OF HAWAII," a biographical compilation of the men of note and substantial achievement in the Territory, which has been several months in preparation by the Star-Bulletin, is nearing completion and will be off the press for distribution about Dec. 20th. "Men of Hawaii" gives the facts of the careers of men active in the various fields of business and professional life. It is the most complete and authentic record that has ever been published in Hawaii.